

ABSTRACT

Vibration gyro circuitry, a vibration gyro unit, and a method for detecting a vibration gyro output, which enable
5 detection of a rotational angular velocity with high sensitivity, are provided. The circuitry and the unit includes a differential amplifier circuit (4) for outputting a signal V_{da} corresponding to a difference ($V_{gl} - V_{gr}$) between output signals of two detection pieces of a
10 vibration gyro (31), a synchronous detection circuit (5) for synchronously detecting the output signal V_{da} of the differential amplifier circuit (4), and a phase shift circuit for supplying to the synchronous detection circuit (5) a signal, as a timing signal V_{ck} for the synchronous
15 detection, which is phase-shifted with respect to a drive signal (an output signal of an adding circuit 1) V_{sa} supplied to the vibration gyro (31). The phase difference θ_{ps} between the drive signal V_{sa} and the timing signal V_{ck} is set on the basis of a phase difference characteristic of
20 a detection sensitivity S for the output signal V_{da} of the differential amplifier circuit (4), which is obtained in advance under a condition where a rotational angular velocity is applied to the vibration gyro (31) in a driving state.